

01411466 INDIAN BRANCH NEAR MALAGA, NJ

MAURICE RIVER BASIN

LOCATION.--Lat 39°35'27", long 75°03'35" referenced to North American Datum of 1983, Franklin Township, Gloucester County, NJ, Hydrologic Unit 02040206, at bridge on U.S. Route 47 (Delsea Drive), 0.4 mi upstream from Malaga Lake, and 1.4 mi north of Malaga.

DRAINAGE AREA.--6.50 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Miscellaneous measurements, water years 1957, 1998 to current year.

GAGE.--Staff gage.

DISCHARGE MEASUREMENTS
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Date	Discharge, in ft/s
Nov 27, 2007	4.27
Feb 25, 2008	8.12
May 23, 2008	10.3
Aug 20, 2008	2.06

01411466 INDIAN BRANCH NEAR MALAGA, NJ—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1998 to current year.

PERIOD OF DAILY RECORD.--July-September 2007.

REMARKS.--Cooperative Network Site Descriptor: Undeveloped Land Use Indicator, NJ Department of Environmental Protection Watershed Management Area 17.

COOPERATION.--Physical measurements and samples for laboratory analysis were collected in cooperation with the NJ Department of Environmental Protection. Determinations of dissolved ammonia, dissolved orthophosphate, and suspended residue were performed by the NJ Department of Health and Senior Services, Environmental and Chemical Laboratory.

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 1 of 3

[Remark codes: <, less than; E, estimated.]

Date	Time	Instantaneous discharge, ft ³ /s (00061)	Turbidity white light, det ang 90+/-30 corrctd NTRU (63676)	UV absorbance, 254 nm, wat flt units /cm (50624)	UV absorbance, 280 nm, wat flt units /cm (61726)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unf 25 degC μS/cm (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO ₃ (00900)
Nov 28...	0900	4.3	.6	.375	.293	773	7.3	60	4.7	59	8.0	7.3	9
Feb 25...	0940	8.1	.6	.445	.343	758	10.2	79	4.1	72	5.0	4.3	9
May 22...	1200	10	.7	.551	.433	749	7.1	67	4.2	60	18.0	12.8	7
Aug 20...	1220	2.1	1.3	.195	.159	766	7.1	75	5.5	45	26.0	17.7	6

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 2 of 3

[Remark codes: <, less than; E, estimated.]

Date	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	ANC, wat unf fixed end pt, lab, mg/L as CaCO ₃ (90410)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L as SiO ₂ (00955)	Sulfate water, fltrd, mg/L (00945)	Residue on evap. at 180degC wat flt mg/L (70300)	Residue total non-filterable, mg/L (00530)	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Ammonia water, fltrd, mg/L as N (00608)
Nov 28...	1.60	1.28	1.00	4.30	<1.7	7.76	<.12	9.9	6.39	49	1	.26	.051
Feb 25...	1.59	1.25	.93	4.69	--	7.93	<.12	6.7	8.11	48	2	.40	.032
May 22...	1.20	.904	.66	3.68	--	6.99	<.12	5.6	5.08	56	<1	.55	.026
Aug 20...	1.10	.877	1.03	4.24	<1.7	7.44	<.12	8.1	3.25	35	1	.21	.048

01411466 INDIAN BRANCH NEAR MALAGA, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 3 of 3

[Remark codes: <, less than; E, estimated.]

Date	Nitrate + nitrite water fltrd, mg/L as N (00631)	Partic- ulate nitro- gen, susp, water, mg/L (49570)	Total nitro- gen, water, fltrd, mg/L (00602)	Total nitro- gen, water, unfltrd mg/L (00600)	Ortho- phos- phate, water, fltrd, mg/L as P (00671)	Phos- phorus, water, fltrd, mg/L as P (00666)	Phos- phorus, water, unfltrd mg/L as P (00665)	Total carbon, suspnd sedimnt total, mg/L (00694)	Inor- ganic carbon, suspnd sedimnt total, mg/L (00688)	Organic carbon, suspnd sedimnt total, mg/L (00689)	Organic carbon, water, fltrd, mg/L (00681)	Boron, water, fltrd, µg/L (01020)
Nov 28...	.40	<.04	.66	--	E.007	E.005	E.006	.2	<.04	.2	7.8	11
Feb 25...	.60	<.04	1.0	--	<.010	E.004	E.005	.2	<.04	.2	9.7	11
May 22...	.29	E.03	.83	E.86	<.010	E.006	.008	.3	<.04	.3	18.4	12
Aug 20...	.55	E.04	.77	E.81	E.008	.010	.011	.4	<.04	.4	2.6	8.3